LISTING OF CLAIMS

- 1. (original) A calcium additive for bread dough comprising:
 - (a) an aqueous solution of an inorganic or an organic acid; and
 - (b) calcium carbonate powder suspended in said aqueous solution of an inorganic or organic acid;

wherein the weight ratio of calcium carbonate to acid is from about 4:1 to about 7:1 and the weight ratio of water to the combined weight of calcium carbonate and acid is from about 1:1 to about 10:1; and wherein the pH of the aqueous solution is from about 3 to about 6.5.

- 2. (original) The calcium additive of claim 1 wherein the acid is an organic acid.
- 3. (original) The calcium additive of claim 2 wherein the organic acid is selected from the group consisting of citric acid, fumaric acid, lactic acid, and malic acid.
- 4. (original) The calcium additive of claim 3 wherein the acid is citric acid.
- 5. (original) The calcium additive of claim 4 wherein the ratio of calcium carbonate to citric acid is from about 5:1 to about 6:1 by weight.
- 6. (original) The calcium additive of claim 5 wherein the aqueous solution comprises water in a weight ratio from about 1:1 to about 5:1 based on the combined weight of calcium carbonate and citric acid.
- 7. (original) The calcium additive of claim 6 wherein the aqueous solution comprises water in a weight ratio from about 1:1 to about 3:1 based on the combined weight of calcium carbonate and citric acid.
- 8. (original) The calcium additive of claim 1 wherein the pH of the solution is from about 4.0 to about 6.5.

- 9. (original) The calcium additive of claim 8 wherein the pH of the solution is from about 4.5 to about 5.6.
- 10. (original) The calcium additive of claim 1 wherein the calcium carbonate is provided as a powder having a mean particle diameter from about 0.05 μ m to about 30 μ m.
- 11. (original) The calcium additive of claim 10 wherein the calcium carbonate is provided as a powder having a mean particle diameter from about 10 μ m to about 15 μ m.
- 12. (original) A method for preparing a calcium additive comprising the steps of:
 - (a) providing an aqueous solution of an inorganic or an organic acid;
 - (b) providing calcium carbonate powder suspended in said aqueous solution of an inorganic or organic acid; wherein the weight ratio of calcium carbonate to acid is from about 4:1 to about 7:1 and the weight ratio of water to the combined weight of calcium carbonate and acid is from about 1:1 to about 10:1;
 - (c) mixing the resulting suspension of calcium carbonate in an aqueous solution of an inorganic or an organic acid at a mixer speed sufficiently high to maintain the calcium carbonate powder as a substantial homogenous suspension in said aqueous solution; and
 - (d) allowing the aqueous solution to reach a pH of about 3 to about 6.5.
- 13. (original) The method of claim 12 wherein the acid is an organic acid.
- 14. (original) The method of claim 13 wherein the organic acid is selected from the group consisting of citric acid, fumaric acid, lactic acid, and malic acid.
- 15. (original) The method of claim 14 wherein the acid is citric acid.
- 16. (currently amended) The method of claim 15 wherein the ratio of calcium carbonate to citric acid is from about 5:1 to about 6:1 by weight.

- 17. (original) The method of claim 16 wherein the aqueous solution comprises water in a weight ratio from about 1:1 to about 5:1 based on the combined weight of calcium carbonate and citric acid.
- 18. (original) The method of claim 17 wherein the aqueous solution comprises water in a weight ratio of about 1:1 to about 3:1 based on the combined weight of calcium carbonate and citric acid.
- 19. (original) The method of claim 12 wherein the calcium carbonate is provided as a powder having a mean particle diameter from about $0.05 \mu m$ to about $30 \mu m$.
- 20. (original) The method of claim 13 wherein the calcium carbonate is provided as a powder having a mean particle diameter from about 10 μ m to about 15 μ m.
- 21. (original) A method of fortifying dough with calcium comprising the steps of:
 - (a) providing a calcium additive comprising:
 - (i) an aqueous solution of an inorganic or an organic acid; and
 - (ii) calcium carbonate powder suspended in said aqueous solution of an inorganic or organic acid; wherein the weight ratio of calcium carbonate to acid is from about 4:1 to about 7:1 and the weight ratio of water to the combined weight of calcium carbonate and acid is from about 1:1 to about 10:1; and wherein the pH of the aqueous solution is about 3 to about 6.5; and
 - (b) incorporating the calcium additive into a dough.
- 22. (original) The method of claim 21 wherein the acid is an organic acid.
- 23. (original) The method of claim 22 wherein the organic acid is selected from the group consisting of citric acid, fumaric acid, lactic acid, and malic acid.
- 24. (original) The method of claim 23 wherein the acid is citric acid.

- 25. (currently amended) The method of claim 24 wherein the ratio of calcium carbonate to citric acid is from about 5:1 to about 6:1 by weight.
- 26. (original) The method of claim 25 wherein the aqueous solution comprises water in a weight ratio from about 1:1 to about 5:1 based on the combined weight of calcium carbonate and citric acid.
- 27. (original) The method of claim 26 wherein the aqueous solution comprises water in a weight ratio of about 1:1 to about 3:1 based on the combined weight of calcium carbonate and citric acid.
- 28. (original) The method of claim 21 wherein the calcium carbonate is provided as a powder having a mean particle diameter from about $0.05 \mu m$ to about $30 \mu m$.
- 29. (original) The method of claim 28 wherein the calcium carbonate is provided as a powder having a mean particle diameter from about 10 μ m to about 15 μ m.
- 30. (original) The method of claim 21 wherein the dough comprises a leavening agent.
- 31. (original) The method of claim 30 wherein the leavening agent is yeast.
- 32. (original) The method of claim 38 wherein the dough has a final pH of about 3.0 to about 6.0.
- 33. (original) The method of claim 21 wherein the mixture is added to the dough in an amount from about 1 to about 10 % by flour weight based on the total weight of flour.
- 34. (original) The method of claim 21 wherein the aqueous mixture is added to one of the group consisting of: the sponge in a sponge dough process, the dough in a sponge dough process, the dough in a straight dough process, the dough in a liquid ferment process, the dough in a notime dough process, or the dough in a continuous mix process.
- 35. (original) Dough prepared by the method of claim 21.
- 36. (currently amended) A calcium fortified baked product comprising elemental calcium from about 0.1 % to about 2.2 % by weight[[,]] and having a pH from about 3.0 to about 6.5.

wherein the baked product comprises flour that is substantially free of bran and wheat middlings, and wherein the baked product has a pH from about 3.0 to about 6.5 does not comprise spraydried calcium citrate crystals.

- 37. (original) The calcium fortified baked product of claim 36 wherein the bread has a pH of about 4.0 to about 5.8.
- 38. (original) The calcium fortified baked product of claim 37 wherein the bread has a pH of about 5.0 to about 5.4.
- 39. (original) The calcium fortified baked product according to claim 36, wherein the bread product is selected from the group consisting of: a white bread, a wheat bread, a hamburger bun, a roll, a bagel, a pizza crust, a snack food, a Danish, and a muffin.
- 40. (original) The calcium fortified baked product according to claim 39, wherein the bread product is selected from the group consisting of: a white bread, a hamburger bun, and a roll.
- 41. (original) The calcium fortified baked product of claim 40 comprising calcium from about 0.8 % to about 1.2 % by weight.
- 42. (original) A method of fortifying a hamburger bun with calcium the steps of:
 - (a) providing a calcium additive comprising:
 - (i) an aqueous solution of citric acid; and
 - (ii) calcium carbonate powder suspended in said aqueous solution of citric acid; wherein the weight ratio of calcium carbonate to citric acid is from about 4:1 to about 7:1 and the weight ratio of water to the combined weight of calcium carbonate and citric acid is from about 1:1 to about 10:1; and wherein the pH of the aqueous solution is about 3 to about 6.5;
 - (b) providing a hamburger bun dough comprising wheat flour; and

Docket No. 4517-4003

<u>PATENT</u> Serial No. 10/770,715

- (c) incorporating said calcium additive into said hamburger bun dough in a quantity sufficient to provide a hamburger bun upon baking having an elemental calcium content from about 0.1 % to about 2.2 % by weight of the hamburger bun.
- 43. (original) The method of claim 42 wherein said calcium additive is incorporated into said hamburger bun dough in a quantity sufficient to provide a hamburger bun upon baking having an elemental calcium content from about 0.8 % to about 1.8 % by weight of the hamburger bun.
- 44. (original) The method of claim 43 wherein said calcium additive is incorporated into said hamburger bun dough in a quantity sufficient to provide a hamburger bun upon baking having an elemental calcium content from about 1.0 % to about 1.2 % by weight of the hamburger bun.
- 45. (original) The method of claim 42 wherein the aqueous solution comprises water in a weight ratio from about 1:1 to about 5:1 based on the combined weight of calcium carbonate and citric acid.
- 46. (original) The method of claim 45 wherein the aqueous solution comprises water in a weight ratio of about 1:1 to about 3:1 based on the combined weight of calcium carbonate and citric acid.
- 47. (original) The method of claim 42 wherein said wheat flour comprises patent flour.